Vol.XIX No. 8 October 1990 Second class postage paid at Canton, Texas Postal identification

Published by Jim Cranshaw, N5FSL Monthly except July and August statement, page 2

Price $12.50 yearly Single issue $1.50 Published since 1972

(214) 848-0304 FIRST CLASS POSTAGE .... $20.00 per year.

THE HORN SPEAKER

hugo GERNsBACK

A Specialty Pioneer

"Most of you are like sheep following blindly some well-meaning but misguided leader. Someone gets up a certain type of outfit, and immediately the majority of radio amateurs follow suit, and copy it down to the last screw!"
- 1922

By D. H. Moore, with the Vintage Radio Foundation and publisher of vintage radio books.

The comments above were in Gernsback's editorial in the first issue of his re-named RADIO NEWS. It is interesting to note that none of his readers protested at the implied me-too-ism; today, of course, there would be a veritable niagara of ungrammatical and mindless protestations in Letters-To-The-Editor.....

If any one indivdual could be said to tower over all of his contemporaries in raising the awareness of everyman to the magic and the romance of Radio, that man would have to be Hugo Gernsback.

There is a saying among Germans that heroes are not at ease in the presence of other heroes: a much older Irish saying has it that falcons don't chase butterflys. When the Gernsback media empire collapsed in the Spring of 1929, through some shady legal machinations of his competitors, there was an audible sigh of relief among media men of lesser talent and merit.

Hugo Gernsback was born in the Grand Duchy of Luxembourg of what he later referred to as well-to-do parents. At the age of six he was given an electrical house-bell, a roll of lead-sheathed wire, and an old Leclauche wet-cell battery. But it was the mysterious green of the spark that really fascinated him, that was produced at the platinum contacts. He quickly mastered the intricacies of house-bells rung by electricity, and began installing house-bells in his home-town. Later, he included the installation of telephones to his services. All of his electrical goods had to be imported from France and Germany.

Shortly after his 13th birthday the Mother Superior Bodewing, of the near-by Carmelite Convent, asked him to install telephones between the cells of the nuns so that they might converse while resting. In spite of his tender years, special dispensation from Pope Leo XIII had to be gotten before he could enter the convent.

Learning of Marconi's experiments, Gernsback set about to imitate what Marconi had done. He also decided to install lights illuminated by electricity in his parent's home, using wet-cells as a primary energy source. He designed his own batteries and succeeded in rigging a system that functioned as a trickle-charge during the day, and supplied energy for his lamps after dark. His lamps emitted a luminance on the order of 2 watts...

He later attended university at Brussels and in Germany, all the while reading voraciously everything he could find on the emerging sciences of the time. In 1903 he decided to emigrate to America in order to exploit his original battery, as such opportunity did not exist in the Europe of his day.

The battery was a compact unit measuring 4"x6"x4", and rated at 124 amperes. But it proved to be too costly to manufacture so that he took on a partner, L.A.Coggeshall, to help in re-designing the battery, and at the same time setting-up the ELECTRO IMPORTING COMPANY. Their first office was a walk-up in Lower Manhattan on the corner of a street that was to become famous as "Radio Row" - Cortland Street. The business proved successful, until the Depression of 1909.

An interesting situation developed when Gernsback placed the first-ever advert for radio apparatus in SCIENTIFIC AMERICA, and in YOUTH's COMPANION. The "radio" advertised was a crystal set priced at $7.50. There was an immediate outcry from certain segments of the public that no "radio" could be sold for $7.50, therefore Gernsback was a charlatan. Needless to say, the editors of the media mentioned were taken aback by the reaction, especially when some readers began writing letters to the Mayor of New York City.

The up-shot was that a burly Irish policeman (all policemen were Irish in those days) was sent to investigate the allegations of the readers, and the claims of the advert. After an hour or so with Gernsback, the bedazzled policeman retired, and the charges faded.

His next step was to design and issue a sales-catalogue, which would be another "first", a reproduction of its cover is shown herein. If you have copies of RADIO BROADCAST of the late Twenties at hand, you might like to compare the winged female figure motif used by both. The catalogue, ELECTRICITY, was first published in 1906. Two years later he published the first magazine, MODERN ELECTRICS, devoted to Radio and the inculcation in the minds of everyman that Radio was magic.

It was predictable that he would also set-up the first Radio shop, and among his customers were sons of Teddy Roosevelt and grandsons of Rockefeller. As interest spread across the country, he next organised the first Radio-fan society, the WIRELESS ASSOCIATION OF AMERICA, complete with certificates of membership and a lapel-pin. He issued the first directoty of wireless operators, chiefly maritime, compiled vast tables of technical data, and began to publish a myriad of books, booklets, pamphlets, dealing with subject-matter quite alien to Radio, but which helped establish the Gernsback Media Empire.

MODERN ELECTRICS became RADIO NEWS in 1920 and the men he had selected for his editors included such subsequently meaningful names as Lescarbours, Cisin, Fitch, Laughter, Sleeper, Lynch, Lacault, Jones and Rider. Among the many media innovations introduced by Gernsback were the tipt-in reply coupon, the reply postal, a department for his readers who wanted more information on specific marques or hardware, and most innovative, the offer of cash prizes for new ideas in Radio. Other media which had come into being, such as PACIFIC RADIO (later RADIO), RADIO WORLD, THE RADIO HOME, all tried to beguile new readers with offers of free gifts, such as soldering-irons, variable condensers, wave-traps, etc., but none offered cash prizes.

Robt. E. Lacault joined Gernsback in 1920, as Senior Editor, thereby causing Arthur Lynch to resign in a huff, as he felt the title should have been his. This may have been the first manifestation of Lynch's wayward ego, which was to grow more wayward as the decade progressed. Gernsback referred to Lacault as his "most brilliant editor", and the story of Lacault can be found in the "Ultradyne Monograph". When Lacault resigned he set-up shop on his own, to become known variously as R.E.L., Phenix Radio, and Radio Engineering Labs - also a play on his initials.

There is, as of this writing, a move by the F.C.C. to delete the use of A.M. bands by amateurs, a misguided move by faceless men and of women sitting in D.C. who probably have never taken a "ham" examination. In 1925 the Department of Commerce, headed by Herbert Hoover, controlled Radio licenses, allocations of frequencies, permits for stations, etc. The Department moved to ban all "ham" operators from the air. Gernsback immediately launched an impassioned series of editorials protesting the move, and he won. The so-called Radio Bill that was finally adopted by the Commerce Department was copied almost word-for-word from Gernsback's editorials. Another example of our endebtedness to him.

* * *

In 1917 MODERN ELECTRICS was sold to a combine that put it through several name changes, eventually becoming POPULAR SCIENCE, but it was never a threat to SCIENTIFIC AMERICAN. In passing, it might be mentioned that SCIENTIFIC AMERICAN lured several of Gernsback's editors.

Gernsback anticipated the entry of the U.S. into the Kaiser's War, which was probably due to his European perspective. He began to organise the RADIO LEAGUE OF AMERICA, to train radio operators a full year before the U.S. entered the War.His WIRELESS LEAGUE was dropt, and the Board of the RADIO LEAGUE included DeForest. Tesla. Fassender.

A modish lapel pin was again designed, and students of the RADIO LEAGUE went on to serve in all branches of the Military when the U.S. did, in fact, enter the War. In return Gernsback received many letters of commendation from the Government, as well as Certificates of Appreciation - the forerunner of what, during another German-inspired war, we were to know as "E"-Flags awarded D.O.D. Contractors.

The RADIO LEAGUE was disbanded after the War, and Hiram Maxim came to the fore with his A.R.R.L. Gernsback went back to building his media empire, publishing a veritable niagara of books and booklets. In the early Twenties, for example, 1,500,000 copies of his booklets that treated of the elementary aspects of Radio were sold world-wide, and his RADIO NEWS was the dominant Radio magazine around the globe, with an average circulation of 200,000 copies per issue.

The famous RALPH 124C 41+ must be mentioned. It was a novel by Gernsback, written in 1908, and is today a collector's item. It came about simply because Gernsback was ending-up with too many unfilled pages in MODERN ELECTRIC, and in order to fill them, he began writing the RALPH opus in serial form. He also wrote many articles under a pen-name, for the same reason. RALPH revealed his obsessive fascination with future science and outer space, which endured as long as he lived. It was turgidly written, and quite sophomoric in spots, and the story-line was in keeping with the times, in that it was a story of a man falling in love with a woman, enduring all manner of hardships, and eventually coming together to live happily ever-after. But the story-line was really quite secondary to the scientific gadgets and devices and prophetic basis of things to come.

Television, molecular transport, rocketry, ray-guns, mental telepathy all figured in RALPH. A cut of the book is shown elsewhere in this essay. The title also revealed Gernsback's droll sense of humour, which many who knew him often remarked upon. He actually had a heavy Germanic accent, which many classified as German, which it wasn't, and was the inevitable result of mastering four languages simultaneously - French, English, German, Luxembourgian. If you have mastered a foreign language, then you know that certain speech patterns and rhythms you grew up with in your native tongue are unconsciously carried over into the use of the foreign language. This is neither good nor bad, simply an inherent characteristic of learning another language.

The humour of Gernsback anent RALPH is revealed in the 124C 41+. Speak the numerals aloud and you will hear "One To Foresee". This was less a reference to the story-line than to Gernsback telling the world that he was forecasting the marvellous things to come from science and inventions of man.

While Jules Verne, H.G.Wells, and later Edgar Rice Burroughs all came to represent well-known names in science-fiction, it has been forgotten that it was Gernsback who coined the term "Science-Fiction", and while RADIO NEWS was his money-making magazine, his AMAZING STORIES was his real love. In retrospect, RALPH 124C 41+ remains a most remarkable labour in that the mechanical, electrical, chemical devices and exotic weapons and communication equipments were all foretold, on the one hand; and rendered a personal relateability for readers of the day. You will find echoes of RALPH in Orwell's 1984.

* * *

The collapse of his media empire occurred in the Spring of 1929, six months before the Wall Street Crash. The collapse was brought about by envious competitors who found an obscure legal technicality in his corporate structure. The trio that took over the empire were from Chicago - Harrington, Fly, MacKinnon. They set-up shop as TECH PUBLICATIONS, and employed that gadfly of the Radio fraternity, one Authur H. Lynch, as Editorial Director, a title he relished. An aside on Lynch might not be amiss here:

In 1922 he was a Gernsback editor, and always felt that he would become Senior Editor within two years. The time frame is important. When Genrsback hired Robt. E. Lacault and gave him the title, Lynch immediately resigned with bad grace. He subsequently became editor for RADIO BROADCAST, had a go at manufacturing Radio hardware, chiefly

Visionary young publisher. up-and-coming at 30.

resistance-type voltage stabilisers for tubes, similar to "Amperite", contributed extensive modifications to most of the popular circuits to appear in Radio media (his modifications were always "improvements), and was given to wearing outlandish "jazz-bow" ties and plus-fours.

His first editorial for the "new" RADIO NEWS was a full-page paen of sophomoric vitrol aimed at demeaning Gernsback and his accomplishments. He retained such Gernsback stalwarts as Cockaday, who had joined Gernsback from POPULAR RADIO, Gordon Taylor, and Dorff. Lynch did show excellent judgement in retaining J.F.Odenback, who had come to Gernsback at the very beginning of his enterprises, and who was responsible for the excellent schematics of the early RADIO NEWS. Frank Jones had been a Technical Editor for a long time, and was immediately sacked by Lynch, who always fancied himself as a Technical Editor.

He resigned from RADIO NEWS after two years, which was the most time he ever spent in any slot, moved to RADIO BROADCAST, resigned after two years, had a go at becoming a manufacturer for a couple of years, then became a U.S. distributor for the British Rheostat Company. He then seems to have dropt from sight and ken.

Parenthetically, as it seems pertinent, Freud was wrong when he insisted that sex was man's strongest drive - it isn't; man's strongest drive is personal vanity, and Lynch's vanity was too transparent not to merit the attention of what we may call Radio Sociologists.

* * *

Because the manipulated collapse of Gernsback's empire seems to be very little known among the current vintage radio hobby, and because it marked a turning point in the thrust and the authority of Radio media, something more might be said.

A conspiracy between B.A.Mackinnon and Authur H. Lynch resulted in the numerous printing firms that produced Gernsback's many media - no one firm in New York City and its environs was big enough to handle all of the printing requirements - suddenly demanding full payment of all bills. For nearly a decade they had been quite content to receive their quarterly payments, usually after a magazine or magazines had been distributed.

The result was that Gernsback was forced to file a petition for bankruptcy. The Irving Trust Company was the Trustee in Banckruptcy for the whole of Gernsback's EXPERIMENTER PUBLISHING COMPANY and CONSRAD imprints. This immediately affected 16 title, of which RADIO NEWS and AMAZING STORIES were the most prominent, along with SCIENCE & INVENTION

ISSN 0898 6959

POSTAL IDENTIFICATION STATEMENT— THE HORN SPEAKER (USPS 956120) is published monthly, except July and August by Jim Cranshaw, Route 3 Box 79, Canton, Texas 75103. Subscription rates are $12.50 yearly and $20.00 for two years. Second class postage paid at Canton, Texas. POSTMASTER: Please send address changes to: THE HORN SPEAKER, P. O. Box 1193, Mabank, Texas 75147.

and Sidney Gernsback's RADIO LISTENERS' GUIDE & CALL BOOK - all of which were of considerable merit to the home-constructor.

Irving Trust became Receiver in February of 1929, and Trustee on the 28th of April, with Guster Gardener signing for Irving Trust. Gardener was Assistant Vice-President of Irving Trust, and handled the whole affair single-handedly. Mackinnon was named Business Manager and, of course, Lynch became Editorial Director.

At the time of filing the petition, E.P.C. listed liabilities approximating $500,000, and assets estimated at $182,000. On the gold standard, these were respectable figures. The principle creditors were:

Bulkley Dunton Co. (printers)	$154,406
Art Colour Printing	152,989
Ed Langer Printing Co.	14,614
Walter Braunstein	10,258
Wayne Paper Products	9,249
Steidinger Press	8,719
Service Photo Co.	6,277
Sidney Gernsback	8,450

As mentioned, CONSRAD, another division of Gernsback's empire, was also affected, which included Aero Mechanics, Amazing Stories, and the RADIO NEWS radio station, WRNY.

While the new Editorial Director stated that the publishing activities of E.P.C. and CONSRAD would be continued, the Wall Street Crash six months later called a halt to Lynch's guranteed "improvements", and few of the former media survived.

* * *

By July of 1929 Gernsback was back in the publishing business, with editorial offices on Park Place, the newspaper row of New York at that time, and with a co-operative printing plant in Mt. Morris, Illinois. The new company, called TECHNI-CRAFT PUBLISHING COMPANY, began operation with a new magazine, RADIO-CRAFT. In his maiden editorial he wrote:

> *"Another new Radio Publication? - in 1929? - at this late date? Aren't there enough radio publications now, most of which, as the trade well knows, are NOT successful?...It would be simple to get out publications in a different field, but I'm backing my faith in Radio with a new and better Radio Publication - when practically ALL other present radio publications are in the decline, admittedly...This is what you WON'T get: a re-hash of stuff so sadly prevelant in present-day publications; picture stories of how Roxy killed a fly on a microphone; pictures of the latest radio mast being raised in Timbukto; a picture gallery of radio announcers flanked by goggle-eyed sopranos; radio mathematics that are swell food for Einstein, but give you indigestion; curves, graphs, charts for everything imaginable, and a total loss to you....."*

It is possible to detect a certain bitterness in those words, which would be understandable. And if you are at all familiar with the Radio media of the Twenties you will have no difficulty in recognizing his various references to what had become stock editorial fare. It can also be pointed out that Gernsback had become well-assimilated into the American way-of-life, and his use of the vernacular in the above is an eloquent testament to that.

There had been, briefly, POPULAR BOOK PUBLISHERS, a transitional effort. TECHNI-CRAFT was superceded byRAD-CRAFT PUBLICATIONS, which in turn gave way to GERNSBACK PUBLICATIONS in 1932. Gernsback, himself, continued to play around with the latest tubes, accessories, and so-called advances in Radio - usually trying to apply then to earlier circuits. His "Tetradyne", "Megadyne", "Interflex" and "Periflex" are good examples. The "Tetradyne" was more of a novelty than a legitimate circuit, but it did foreshadow the ferrite-stick antenna.

Of the ultimate 50 magazines Gernsback's media empire comprised, and despite the fact that his name is associated in the popular mind - if at all - with Radio, only four of the titles of his empire dealt directly with Radio. The other publications dealt with such subjects as parlour tricks, health and beauty, stage-magic, bridge, puzzles, joke-books, card-games, cross-words, limerick rhyming booklets, money-making, and on and on. And all media carried the credit-line: Editted by H. Gernsback. We all have our own peculiarities, and I've sometimes wondered if Gernsback simply like to see his name in print. I've known quite a few failed journalism majors over the years, in my work, who contributed nothing to the trade-media for which they worked, but who would always show you their names in print, thereby proving, I suppose, that Billy-of-Avon's dictum was right - the name of the game is the name, regardless of whether or not there is any substance behind it.

But with Gernsback there was obviously substance, of considerable depth and originality. While his RADIO NEWS made the money that kept his media empire going, there was no doubt that true love was science and invention. He coined the phrase "science-fiction", and published the first magazine in the field - AMAZING STORIES. It was said that he would agonize far into the night with his illustrator over the probable form or shape or configuration of men from Mars, time-machines, alien life, etc.

When Sidney Gernsback compiled what we know as the Gernsback Radio Cyclopedia, Hugo was less interested in it than a new magazine he called THE TV EXPERIMENTER, there in 1927. The magazine represented one of his few publishing failures, simply because he was, as usual, about 20 years ahead of his time, and all of his fiery enthusiasm for transmitting picture by radio could not save it. Today, copies of that pioneering magazine are considered to be collectors' items.

A tale that may be apocraphal was that when he was 10 he read Lowell's grossly imaginative book on the planet Mars, complete with the sketches of non-existent "canals". The book fired his imagination to the point where, acording to the story, Hugo fell into a delerium that lasted for three days, during which he raved of creatures called Martians.... His life-long fascination with outer space may be said to have begun at that time. In 1967 he remarked rather wistfully that he would not live to see men landing on the moon. The moon-landing occurred two years after his death, and there is a crater on the moon named for Gernsback.

After the under-handed legal machinations of a competitor that resulted in the abrupt collapse of Gernsback's media empire in March of 1929, it is interested to note that when he returned to the publishing business, his first offering was WONDER STORIES, another science-fiction magazine. When word got out that he was back in publishing, he recieved more than 8,000 advance subscriptions for magazines that had not even been planned!! - so much for the strength of a name.

But like all exceptional men who live beyond their hour of glory, Gernsback never seemed to regain the marvellous ingenuity and imagination that distinguished his earlier years. And it is worthy of mention that the shenanigans that brought down his media empire did not cause him to lose faith inthe U.S., or its people.

When the exceptional man lives beyond his hour of glory, his mortality begins to get in the way, but the unique and far-reaching contributions Gernsback made to Radio, Television, Science-Fiction, have never been equalled by any other early Radio Pioneer, and we all owe him a debt for the sense of wonder and fascination and love we feel today anent vintage Radio. Hugo Gernsback died on the 19th of April, 1967.

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REFINISHING WOODEN RADIOS

REFINISHING WOODEN RADIOS
By Tom Thompkins,
Owner of
Metco Electronics

Much of the appeal of vintage radios lies in their appearance - those beautiful wooden cabinets that are unlike anything available today. Unfortunately, years of storage under than ideal conditions often has so damaged the finish of our "finds" that a complete refinishing is in order. In this article, I'll cover the preliminary steps in such a process, and we'll talk about applying a new finish at a later date. Bear in mind that I'm not a professional furniture refinisher and that the methods outlined here are geared toward the hobbyist who, like myself, doesn't demand absolute perfection.

After taking the chassis, speaker grille, escutcheons and other removable pieces from the radio, you should conduct a careful evaluation of the cabinet. Take note of any loose or missing veneer so that it may be repaired. Observe the shading scheme of the cabinet, perhaps making a rough drawing to aid with recall. Trim and other darker than average areas may require special coloring after being stripped. Be on the lookout for decals and simulated (painted on) woodgrain which was sometimes used to enhance the beauty of the wood, these will be lost during the stripping process if not protected.

Any needed repairs should be undertaken before the refinishing is attempted. Use a water based wood glue to secure delaminated veneer or loose wood. I often dilute the glue slightly with water to make it easier to spread and use an artist brush to work it under loosened veneer, a damp cloth may be used to remove excess glue that squeezes out and clamps or weights employed to apply pressure to the repair. One or more building blocks set on many thicknesses of newspaper works well for large flat surfaces; curved parts can be held down by stapling through a thin piece of cardboard. replacement pieces of veneer may be fashioned from scrap salvaged from sets that were beyond repair (a heat gun and putty knife may be used to remove large pieces of old veneer for salvage). Use an Xacto or single edge razor blade to trim the veneer to size.

Removal of the old finish is begun once all repairs have been made and the glue allowed to harden thoroughly, as is the case with the following steps, it does not pay to hurry things if you wish to obtain good results. I prefer to use a chemical stripper which has a semipaste consistency. Always follow the direction on the container carefully, especially with regard to safety precautions. Most products require that you use them outdoors and wear goggles and neoprene coated gloves. Before applying the paint and varnish remover, you should mask those areas of the old finish, such as decals, that you wish to protect.

Since masking tape can pull off old varnish when removed, I suggest using a piece of protective paper between the tape and any surface area where this could be a problem. You will probably find that it requires as many as four applications of the liquid stripper to do a proper job of removing the finish. I used a dull putty knife with rounded corners (to prevent gouging) for removing the bulk of the softened varnish, followed by pads of double 00 steel wool and a rag to "finish up." An old toothbrush is handy for getting those curved and irregular areas. Don't be concerned if the stripping process leaves your cabinet looking pale and sickly, as the rich woodtones will be restored in a later step.

After finishing with the chemical stripper, the masked area can be uncovered and any excess finish and any excess finish surrounding the parts being saved carefully removed with a knife blade and sandpaper. If the remover you used recommends a rinse with water or solvent, this should be done. Once the cabinet has thoroughly dried, it should be sanded lightly with an extra fine grade of paper, being sure to sand in the direction of the woodgrain. When the surface preparation has ben completed to your satisfaction, use a vacuum cleaner with brush attachment to clean the dust from the inside and outside of the cabinet. You will then be ready for the next step in the refinishing process, to be continued...

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8519	R. F. Coil Cap													x		$ .88
8523	Coil Mtg. Screw													x		.05
8525	A. F. Mounting Bracket													x		.75
8530	Cabinet													x		30.00
8535	No. 1 R. F. Amplifier Assembly													x		9.50
8540	No. 2 R. F. Amplifier Assembly													x		22.00
8553	Metal Container													x		15.00
8555	Double Rheostat Assembly													x		4.75
8559	Front Panel													x		4.00
8571	Metal Container Screw													x		.02
8585	Stabilizing Condenser													x		.50
8590	Phone Condenser													x		.60
8593	Grid Condenser													x		.50
8599	R. F. Rheostat Resistance													x		.15
8602	Shipping Container													x		.50
8627	A. F. Fixed Resistance													x		.26
8640	A. F. Base and Contact Springs													x		3.00
8650	No. 1 A. F. Transformer													x		5.50
8660	Choke Coil													x		.80
8685	Bypass Condenser		x	x	x		x	x	x	x	x	x	x	x	x	1.25
8690	Bypass Condenser													x		1.25
8714	Wood Holding Screw													x		.03
8796	No. 1 R. F. Resistance													x		.50
8870	Two Stage Amplifier													x		15.00
8940	No. 2 A. F. Transformer													x		5.00
8950	Double Rheostat Assembly														x	4.75
8963	Condenser Pulley Belt														x	.15
8964	Condenser Pulley Belt														x	.15
8971	Ground Spring													x		.05
8988	Front Panel														x	3.25
8993	Cabinet														x	15.00
8996	Grid Resistance														x	.50
8997	Shipping Container														x	.35
9008	No. 1 Tube Socket														x	1.50
9010	*†Battery Cable										x	x		x	x	3.50
9020	R. F. Amplifier Assembly											x				10.00
9022	Antenna Adjustment Knob													x	x	.30
9030	*R. F. Amplifier Assembly										x					10.00
9040	Model 30-C Set															70.00
9043	5 ft. Battery Cable										x				x	2.00
9050	Model 33-C Set															80.00
9056	Main panel (for Model 30-C Set)										x					2.75
9059	Main Panel (for Model 33-C Set)														x	3.25
9100	Variable Condenser Group										x	x				15.00
9123	Tube Caps										x		x	x	x	.35
9168	No. 1 and No. 3 Condenser Pulley									x	x	x	x	x	x	.55
9169	No. 2 Condenser Pulley									x	x	x	x	x	x	.65
9171	No. 4 Condenser Pulley												x		x	.60
9179	No. 1 R. F. Transformer													x		5.00
9181	No. 2 R. F. Transformer													x		5.50
9182	No. 3 R. F. Transformer													x		5.50
9183	No. 4 R. F. Transformer													x		5.50
9184	R. F. Tuning Coil Assembly													x		20.00
9190	Variable Condenser Group														x	20.00
9201	Variable Condenser Group (13 plate) (used previous to serial No. 900,000)											x				15.00
9210	Variable Condenser Group													x		15.00
9220	R. F. Transformer Group														x	20.00
9245	No. 2 R. F. Base													x		2.50
9246	No. 1 R. F. Base													x		2.00

* For use of this part on Model 35 set, see page 13. † For use of this part on Model 30-A set, see page 12.

(Continued from last month.)

Above is a cross reference list of all of the major parts used in the Atwater Kent battery radios between 1924 and 1927. It tells which sets each of the listed parts were used. This list was printed by A. K. in 1927.

Ray

(To be continued.)

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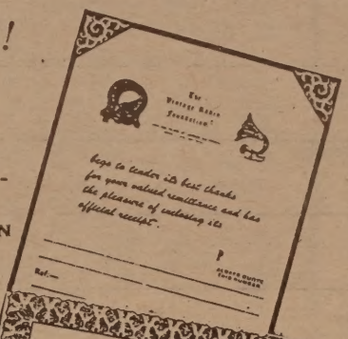

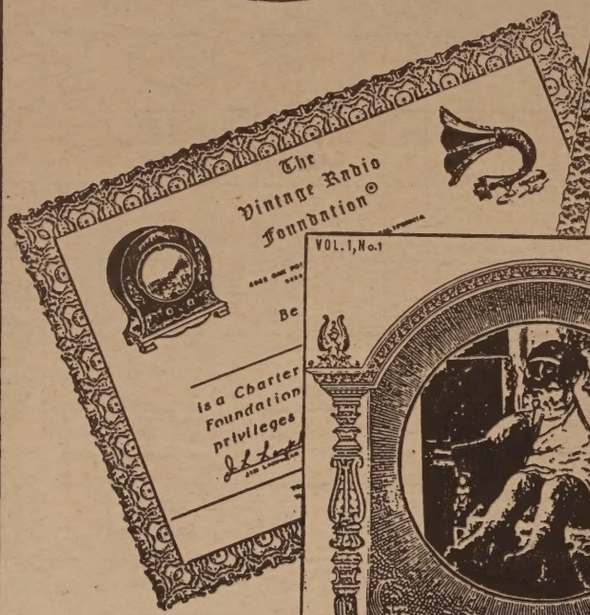

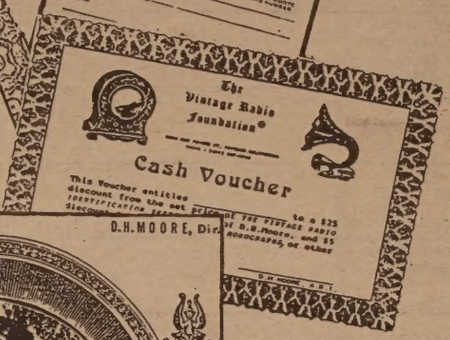

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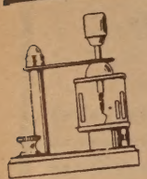

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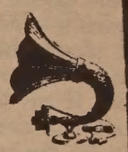

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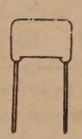

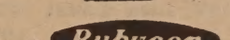

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.015	.21	.40
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.22		.91
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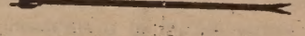

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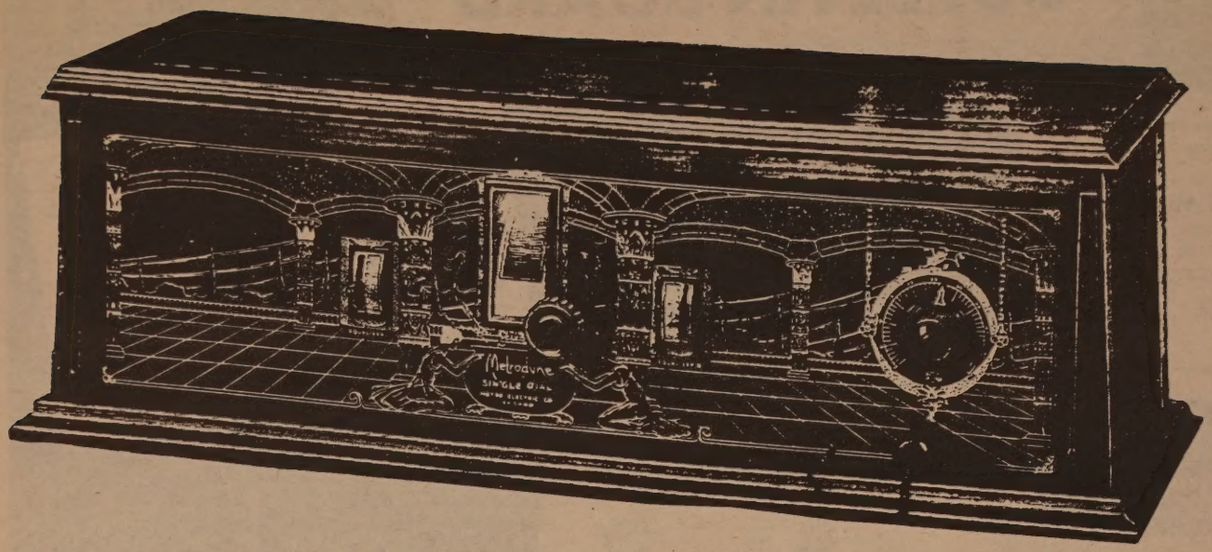

1926

Metrodyne Super-Seven Radio

Tilt

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Who isn't fed up with this fast becoming rich man's hobby. What started out as a fun hobby has become a marketplace for dealers and money hungry people. You hear of scandals where people collect others' money and don't even have anything to sell! Where there's a petential for big money, there's a potential for problems. To us, a collector should be someone who has his own collection and is willing to trade for things he wants or sell things at his cost or a little extra when he loses interest in an item. If all true collectors would band together and trade and sell things at agreed upon prices, this could be the Garden of Eden! All too often, we and others have sold to dealers for low prices. When the favor is asked upon the dealer to sell reasonable to you in return, its NO. "The price guide lists this radio at $600 and I can get $600 so you pay too." Never mind that you gave them numerous deals. I think the time will come when collectors will say "Why am I spending this much money on one stinking radio?" We do not follow a price guide. We aren't strictly cheap either. If a radio is worth it to us, we'll pay hundreds of dollars. Then again, if the radio has a "hundreds of dollars" price tag, it may sit, even though we like it and want it. Each has to have his own personal price guide. Trading is fun when both parties throw away the price guide. All too often, one will throw it out and the other will still use it. Antique dealers here in Wisconsin are starting to buy radio price guides and use them. Most of them have no knowledge of radios whatsoever. One antique dealer had an AK 20 for sale and she said that the cord was missing but that would be no problem to fix. (We all know AK 20 is a battery set!) They'll have a "beautiful" radio at a steal. She didn't know it had the wrong chassis. They'll have it beautifully refinished.... and it will look like every other radio she has. These price guides are making it hard on us who still buy from the common person who has an old set for sale. We have to pay more therefore when we "clean up" we have to sell for more. Have you ever heard of a dealer who paid more for a radio than what the person wanted because it was worth more than that. We have done it and I'm sure there are other collectors who have done it also. There is one big difference between dealers and collectors. Dealers want the money and collectors want the radios. We collectors do not have to feather the dealers pockets. We have found that in due time, we will find what we want at a realistic price we are comfortable with paying. We can afford to wait. We believe that eventually, like many other collectibles, prices will come back down our way. The fad will wear off and we true collectors will have our fun, affordable hobby back!

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RADIO NEWS IN BOUND VOLUMES 1950 TO 1959 NAME CHANGED TO ELECTRONIC WORLD 1959 TO 1969 20 VOLUMES LIKE NEW ALSO. P.F. REPORTER 4 VOLUMES 1960-61-63-65. RIDER ENCYCLOPEDIA ON OSCILLOSCOPES 1959 LARGE VOLUME HAS SLEEVE 10 LBS. $25.00 RUSS OLMSTED, 608 W. THOMPSON LN., MURFREESBORO, TN 37129. ----------

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HOWARD SAMS #1 TO #115 manuals to 1971 -- $4.00 A set. --- Neil Clute, K5VBP, Route 1 Box 61, Marquez, TX 77865.

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SAMS PHOTOFACTS, AUTO RADIO AND TRANSISTOR RADIO SERVICE. 189 BOOKS, GOOD CONDITION -- SOME STILL IN CELLOPHANE WRAPPERS. 1966-1973, FIRM PLUS SHIPPING (918) 786-4514, ALAN ROLLOW, RR3 BOX 140, JAY, OK 74346.

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FOR SALE -- SILVER MARSHALL --------

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SILVER MARSHALL A-18, CONSOLE, EXCELLENT CONDITION OR TRADE FOR OZARKA V-16 CHASSIS. RAY MINER, 1215 B. FT. MADISON, IA 52627. (319) 372-1271. ----------

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FOR SALE -- TUBES, PARTS, TEST EQUIPMENT, ETC. ----------

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OLD-LIGHTED GE RADIO SIGN -- RUSSELL SCHOEN, E7340 NIETZKE ROAD, CLINTONVILLE, WI 54929. (715) 823-6744. ----------

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NEW AND USED TUBES, electrolytic capacitors, cone speakers. Send SASE for lists. C. Elmer Nelson, 11 S. Church Street, Princeton, IL 61356.

****

LARGE CONSOLE SPEAKER, HAD GREBE SITTING ON TOP --- PHOTO (2) FRONT - BACK $1.00 ---- RUSS OLMSTED, 608 W. THOMPSON LANE, MURFREESBORO, TN 37129. ----------

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FOR SALE --- TELEVISIONS ----------

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FARNSWORTH model 651-P, 10" B/W, 194@8, walnut table model, 29 tubes, Completely restored cabinet and electronics, $1,200 plus shipping costs. Panasonic TR001 and Sinclair Nine TVs, $400 plus shipping costs. Send SASE and $1.00 for photo. Bill Russell, 3236 Laurel Canyon, Santa Barbara, CA 93105. ----------

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FOR SALE --- ZENITH ----------

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ZENITH MODEL 7G605 TRANSOCEANIC PORTABLE - 1941 (SEE MARCH 1990 HORN SPEAKER) $110, ALSO HAVE ZENITH 6G001Y ZENITH PORTABLE $35.00. PAT STEWART, W7GVC, 1404 RUTH AVENUE, WALLA WALLA, WA 99362 (509) 525-1699. ----------

WANTED

WANTED --- AMATEUR EQUIPMENT -----

WANT GREBE SHORTWAVE RECEIVER 1920'S 1930'S AMATEUR RADIO TRANSMITTERS, RECEIVERS. HALLICRAFTER HT6 TRANSMITTER- HOWARD 430 438 AMATEUR RECEIVER -- R. OLMSTED, 608 W. THOMPSON LANE, MURFREESBORO, TN 37129. ----------

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WANTED --- AMECO ----------

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15 WATT TRANSMITTER, Ameco, Please contact, M. G. Clute, K5DXV, Route 1, Jewett, TX 75846. ----------

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WANTED --- ARMY SURPLUS ----------

I WOULD LIKE TO FIND AN ARMY SURPLUS TRANSMITTER BC-223 AX with TU coil sets. Transmitter uses 801 and NR46 tubes. Would like any repairable or parts set. K4UJZ, 608 W. Thompson Lane, Murfreesboro, TN 37129. ----

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WANTED --- ATWATER KENT ----------

TOP COVER FOR MODEL 2 ATWATER KENT. L. G. SIEBERT, 195 MONMOUTH DRIVE, KAMLOOPS, B. C. CANADA V2E 1L9 ---

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TONE BEAM for model 480. Will pay your price. Interested in buying any old radios. Send description, model and price and I'll reply. H. Thomas Hale III, 2574 Ocelot Avenue, NE, North Canton, OH 44721. ----------

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WANTED --- COLLINS ----------

"COLLINS SIGNAL" newsletters; ARRL, "Hints and Kinks." Old Collins receivers and transmitters, Grebe RORD-- Parker, W1YG, 87 Cove Road, Lyme, CT 06371. (203) 434-7783.

WANTED -- GLOBE TROTTER ----------

1959 RCA "Globe Trotter" portable radios. model IT5J or IT5L. Must play perfect! Mike Hanke, 1036 South 15th Avenue, Wausau, WI 54401.

WANTED --- HALLICRAFTERS ----------

HALLICRAFTERS SHORT model SX42. Call (312) 961-7737. Rich. ----------

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WANTED --- LITERATURE ----------

SCHEMATIC for a Crosley 4-29 -- Jack Emery, Box #84, 5546 Union Street, Lexington, MI 48450. ----------

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OPERATING MANUAL and tube data sheets for Jackson Dynamic tube tester model 636. Zerox copy OK, Frank Hoffert, 19605 Chardon road, Cleveland, OH 44117. ----------

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WANTED --- MISCELLANEOUS ----------

1928 RADIO AGE MAGAZINES, ROTARY SPARK GAP TRANSMITTER, GREBE RORD --- PARKER, W1YG, 87 COVE ROAD, LYME, CT 06371 (203) 434-7783 after 0300 gmt. ----------

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-OLD VIOLINS/ FIDDLES -- ANY CONDITION - BUY - SELL - TRADE - REPAIR - CONTACT - JAMES BARNES - UNIVERSITY OF TENNESSEE - 206 FERRIS HALL - KNOXVILLE, TN 37996 (615) 974 5489 ----------

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MARCH 1990 AD -- INFORMATION ON NATIONAL RCP modified 1945 by Schuttig Company --- Walter sutton, 2530 Louisiana Street, Beaumont, TX 77702. (409) 838-5104. ----------

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WANTED --- NATIONAL ----------

NATIONAL "VIDEO METER" wood or metal case - complete or not --- Fred Emerson, 627 Illinois Avenue, Elgin, IL 60120. ----------

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WANTED --- PARTS, TUBES, ETC. -----

WANTED: SONORA TUBE no's RA-1, DE-1, SO-1, RE-1, Arcturus tube no's 26, 27, 71A, 80, ballast tube type 12S. John Swett, 8116 Olmway, Olmsted Falls, OH 44138. (216) 235-1463.

PHILCO 32-1313 IF XFMR OR PARTS CHASSIS. USED IN MODELS 8, 37-8. ZENITH 75633 DIAL GLASS, 5 1/2" X 7" CURVED, USED IN MANY MODELS. GERNSBACK OFFICIAL SERVICE MANUAL VOL. 6. RIDER AUTO RADIO INDEX. ALVIN HECKARD, RD1, BOX 88, LEWISTOWN, PA 17044. ----------

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AMATEUR BAND SPREAD COILS FOR NATIONAL SW-3. Also need parts and schematic for Harvey Radio Laboratories amateur transmitter 90-C, circa 1938. Leland Smith, W5KL, HCR=31, Box 147, Jasper, AR 72641. (501) 428-5967. ----------

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WANTED: POWER TRANSFORMERS FOR SONORA MODELS A-30, A-32, A-40, 2RP-25, 3R or 4R. Bottom left brass knob for Northern Electric model 50. Sonora and Eveready tubes. John Swett, 8116 Olmway, Olmsted Falls, OH 44138. (216) 235-1463. --------

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AK model 10 RF coil with name plate and single tube socket with binding posts. Bob Nicholson, 3423 S. Long, Topeka, KS 66605. (913) 266-9473.

TRANSMITTING TUBES and oddball milk bottles from old diathermy machines (HF 150, FP 285, 285, 211, etc.) TCBA, 3 Amy Lane, Queensbury, NY 12804 ----------

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RHEOSTAT DIAL for Stromberg Carlson, Joe Warburton, 954 East Madison Street, Brownsville, TX 78520.

JAPANESE SUBS for UZ133D - UF109A - UF134 and UZ135. -- C. S. Hoffman, 824 Gordon Street, Allentown, PA 18102. ----------

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I NEED A MAROON CABINET and two orange knobs for a Fada 1000 radio. Also need 4 WD11's. Write or phone 1-802-862-4394. Walter Keith, 269 White Street, South Burlington, VT 05403. ----------

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ERLA BALLON CIRCLOID coupler 200-500 M for ERLA model S-11. Jim Briscoe, P.O. Box 327, Shoals, IN 47581. (812) 247-2497. ----------

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WANTED --- PHILCO ----------

DIAL AND SPEAKER for Philco no. 90-90A or chassis and speaker. Any condition. S. K. Hughes, 1338 E. Mulberry Street, Phoenix, AZ 85014. 1-602-248-0734. ----------

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WANTED --- RCA ----------

A SERVICEABLE MAGNETIC PICK-UP HEAD FOR A CONSOLE RCA RADIO-PHONO MODEL RE-45. THE DEFECTIVE ONE I HAVE HAS THE NIPPER LOGO ON THE FRONT OF THE HEAD. ALSO WANTED, THE BOOK OF 1929-1930 RCA VICTOR SERVICE NOTES. HOWARD E. SUTTON, 1163 FURMAN DRIVE, SUMTER, SC 29154. ----------

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WANTED --- RECORDS ----------

EDISON RECORDS WANTED. H. Custer, 30635 Helmandale, Franklin, MI 48025. ----------

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WANTED --- WESTERN ELECTRIC -------

WESTERN ELECTRIC AMPS, SPEAKERS, ETC. (1930s) AMP: 105, 91A, TA1086A, etc. SPEAKER: 713A, 594A, TA4181A, 728B, 757A, etc. TUBE:300B, etc. Cartridge, Horn, Transformer, Catalog, Manual, etc. CALL (215) 844-7404. ----------

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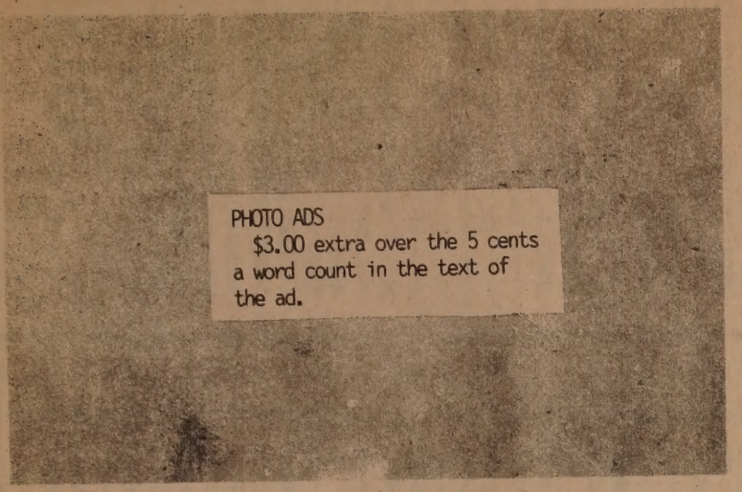

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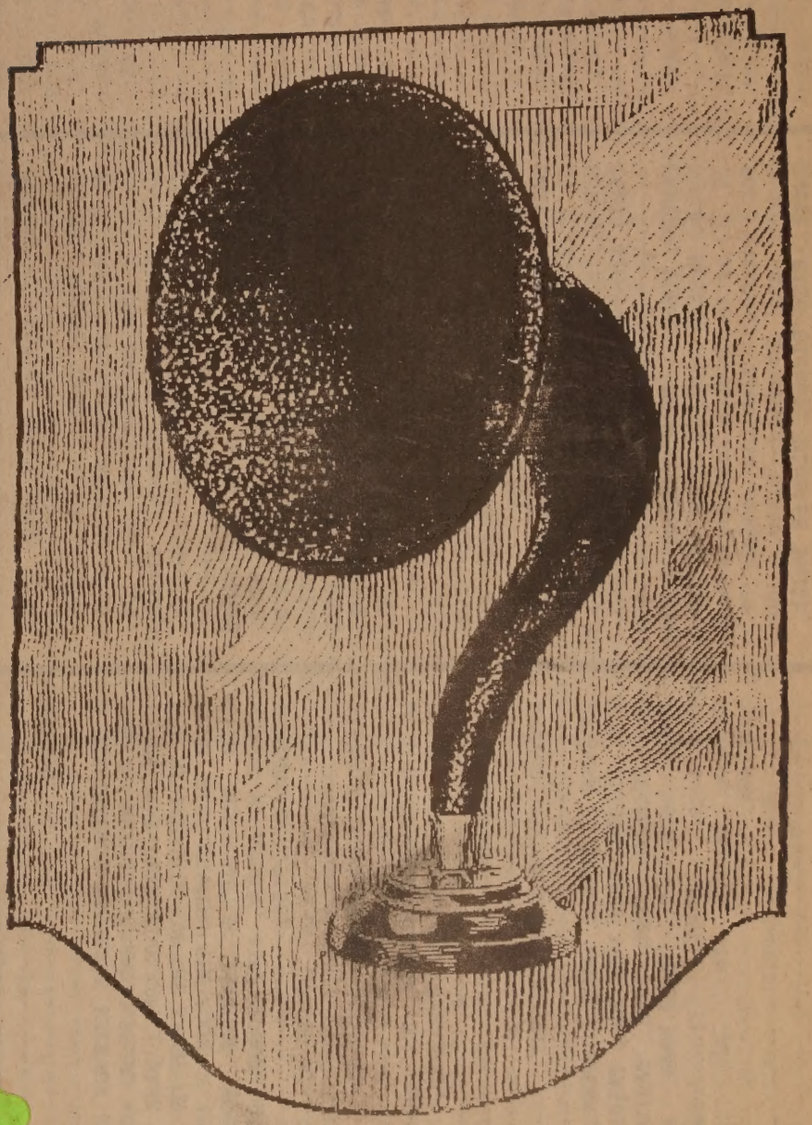

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